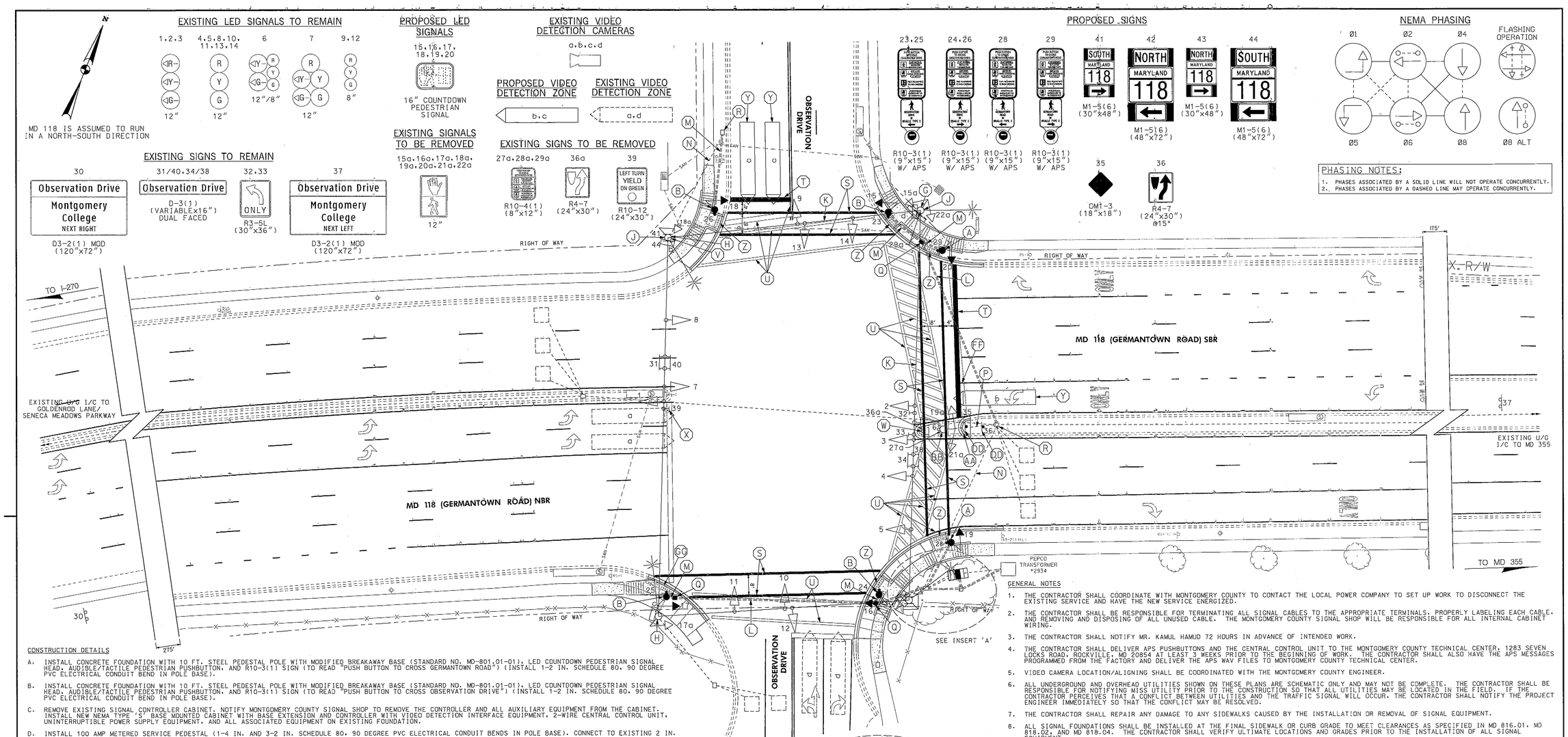

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH MONTGOMERY COUNTY TO CONTACT THE LOCAL POWER COMPANY TO SET UP WORK TO DISCONNECT THE EXISTING SERVICE AND HAVE THE NEW SERVICE ENERGIZED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS. PROPERLY LABELING EACH CABLE, AND REMOVING AND DISPOSING OF ALL UNUSED CABLE. THE MONTGOMERY COUNTY SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
3. THE CONTRACTOR SHALL NOTIFY MR. KAMUL HAMUD 72 HOURS IN ADVANCE OF INTENDED WORK.
4. THE CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND THE CENTRAL CONTROL UNIT TO THE MONTGOMERY COUNTY TECHNICAL CENTER, 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO THE BEGINNING OF WORK. THE CONTRACTOR SHALL ALSO HAVE THE APS MESSAGES PROGRAMMED FROM THE FACTORY AND DELIVER THE APS WAV FILES TO MONTGOMERY COUNTY TECHNICAL CENTER.
5. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE MONTGOMERY COUNTY ENGINEER.
6. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
7. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO ANY SIDEWALKS CAUSED BY THE INSTALLATION OR REMOVAL OF SIGNAL EQUIPMENT.
8. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE LOCATIONS AND GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. ALL EXISTING TRAFFIC EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
10. LOCATIONS OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTIONS 4E.08 AND 4E.10 AND FIGURES 4E-3 AND 4E-4 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
11. THE 10-FOOT MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
13. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
14. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
15. ALL CROSSWALKS SHALL BE CENTERED TO THE PROPOSED SIDEWALK RAMPS.
16. REFER TO DETAIL SHEET SG-02 FOR CURB RAMP DETAILS AND SIGNAL POLE LOCATIONS.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD-801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS GERMANTOWN ROAD") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD-801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS OBSERVATION DRIVE") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

C. REMOVE EXISTING SIGNAL CONTROLLER CABINET. NOTIFY MONTGOMERY COUNTY SIGNAL SHOP TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET. INSTALL NEW NEMA TYPE 'S' BASE MOUNTED CABINET WITH BASE EXTENSION AND CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT, 2-WIRE CENTRAL CONTROL UNIT, UNINTERRUPTIBLE POWER SUPPLY EQUIPMENT, AND ALL ASSOCIATED EQUIPMENT ON EXISTING FOUNDATION.

D. INSTALL 100 AMP METERED SERVICE PEDESTAL (1-4 IN. AND 3-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE). CONNECT TO EXISTING 2 IN. CONDUIT BEND IN CABINET BASE.

E. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT PEPCO TRANSFORMER NO. 2934 FOR USE BY OTHERS. INSTALL 3-1 CONDUCTOR NO. 2/0 AWG TYPE THHN ELECTRICAL CABLE FROM THE METER TO THE BASE OF THE TRANSFORMER WITH 35 FT. OF COIL SLACK AT THE BASE OF THE TRANSFORMER.

F. DISCONNECT EXISTING UNDERGROUND POWER FEED (TO BE DONE BY OTHERS).

G. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, SIGN, AND ALL ASSOCIATED ELECTRICAL CABLE.

H. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND ALL ASSOCIATED ELECTRICAL CABLE.

J. USE EXISTING STRAIN POLE.

K. USE EXISTING SPAN WIRE.

L. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).

M. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

N. USE EXISTING CONDUIT.

P. CAP AND ABANDON EXISTING CONDUIT.

Q. INSTALL ELECTRICAL HANDHOLE.

R. USE EXISTING HANDHOLE.

S. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR CROSSWALK.

T. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOP LINE.

U. REMOVE EXISTING PAVEMENT MARKINGS.

V. INSTALL NEW SHEET ALUMINUM SIGNS ON EXISTING STRAIN POLE.

W. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.

X. REMOVE EXISTING OVERHEAD SIGN.

Y. ADJUST EXISTING VIDEO DETECTION ZONE (TO BE DONE BY MONTGOMERY COUNTY).

Z. INSTALL SIDEWALK RAMP (STANDARD NO. MD-655.13; SEE SG-02) AND DETECTABLE WARNING SURFACE (STANDARD NO. MD-655.40).

AA. RECONSTRUCT MEDIAN (SEE SG-02).

BB. REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT. FOUNDATION REMOVAL WILL BE INCIDENTAL TO THE MEDIAN RECONSTRUCTION.

CC. PULL BACK EXISTING TRAY CABLE AND REROUTE THROUGH NEW CONDUIT TO NEW METERED SERVICE PEDESTAL.

DD. INSTALL GROUND MOUNTED SIGN(S) ON ONE 4"x4" WOOD SUPPORT.

EE. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

FF. INSTALL 5 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

GG. INSTALL MODIFIED SIDEWALK RAMP (SEE SG-02) AND DETECTABLE WARNING SURFACE (STANDARD NO. MD-655.40).

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
FIBER-OPTIC

0 10 20 40
SCALE: 1" = 20'

McCormick Taylor
Engineers & Planners Since 1946
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4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: NJMonaco

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
DEPUTY DIRECTOR
ORIGINAL ON FILE

REVISIONS

B	INSTALL APS, CPS, AND ADA COMPLIANT CURB RAMPS	08/13/13 SHA NO. XY2385185 TMS NO. M005	
BSH		MLP	
A	ASBUILT FOR REPLACEMENT OF LOOP DETECTION WITH VIDEO CAMERAS	3/2005 SHA NO. M07175185	
JWA			

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 118 (GERMANTOWN ROAD) AT OBSERVATION DRIVE
GERMANTOWN, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE _____ CONTRACT NO. BW-427-802-312

DESIGNED BY BAHA H. ELAWAR COUNTY MONTGOMERY
DRAWN BY RON E. SANTOS LOGMILE 15011806.78
CHECKED BY _____ T.I.M.S. NO. _____
F.A.P. NO. _____ T.O.D. NO. _____

T.S. NO. 2474B SG-01 OF SG-03 SHEET NO. 1 OF 3

PLOTTED: Monday, August 12, 2013 AT 03:27 PM
FILE: I:\5212 - TECO\23 (PB 151) - MD 118, MD 165 Signals\Design\Engineering\PlanSet\MD 118 at Observation Drive (TS 2474)\pSG-P001_TS2474B.dgn